Abstracts

Modeling of Dielectric Objects in Rectangular Waveguides and Cavities

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This paper proposed an approach to analyze dielectric objects in rectangular waveguides and cavities using generalized scattering matrices. The configurations are approximated by cascadings of dielectric loaded waveguides. Flexibilty and expandability are the major advantages of this approach. It is found that the proposed method is accurate in dealing with various kinds of rectangular dielectric loaded waveguide transitions and dielectric objects in rectangular waveguides and cavities.

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